

# WALT add decimals when crossing wholes.

## WILF:

- Use your place value columns to help you
- Count carefully
- Add numbers with up to three decimal places.

We can use partitioning (splitting numbers into their parts) to help us with adding these numbers. Follow the arrows to see how the numbers can be split to make the calculation easier.

$$0.63 + 0.53 = 1.16$$

$$0.63 + 0.37 + 0.16 =$$

$$1 + 0.16 =$$

Split 0.53 into 0.37 and 0.16

Notice  $0.63 + 0.37 = 1$ , then add 0.16 for your answer.

Try this one yourself.

$$0.87 + 1.36 = ?$$

$$0.87 + 0.13 + 1.23 =$$

$$1 + 1.23 = ?$$



We can use partitioning (splitting numbers into their parts) to help us with adding these numbers.



$$0.63 + 0.53 = 1.16$$

$$0.63 + 0.37 + 0.16 =$$

$$1 + 0.16 = 1.16$$

$$0.87 + 1.36 = 2.23$$

$$0.87 + 0.13 + 1.23 =$$

$$1 + 1.23 = 2.23$$

We can also use the column method, as before when they were under 0.

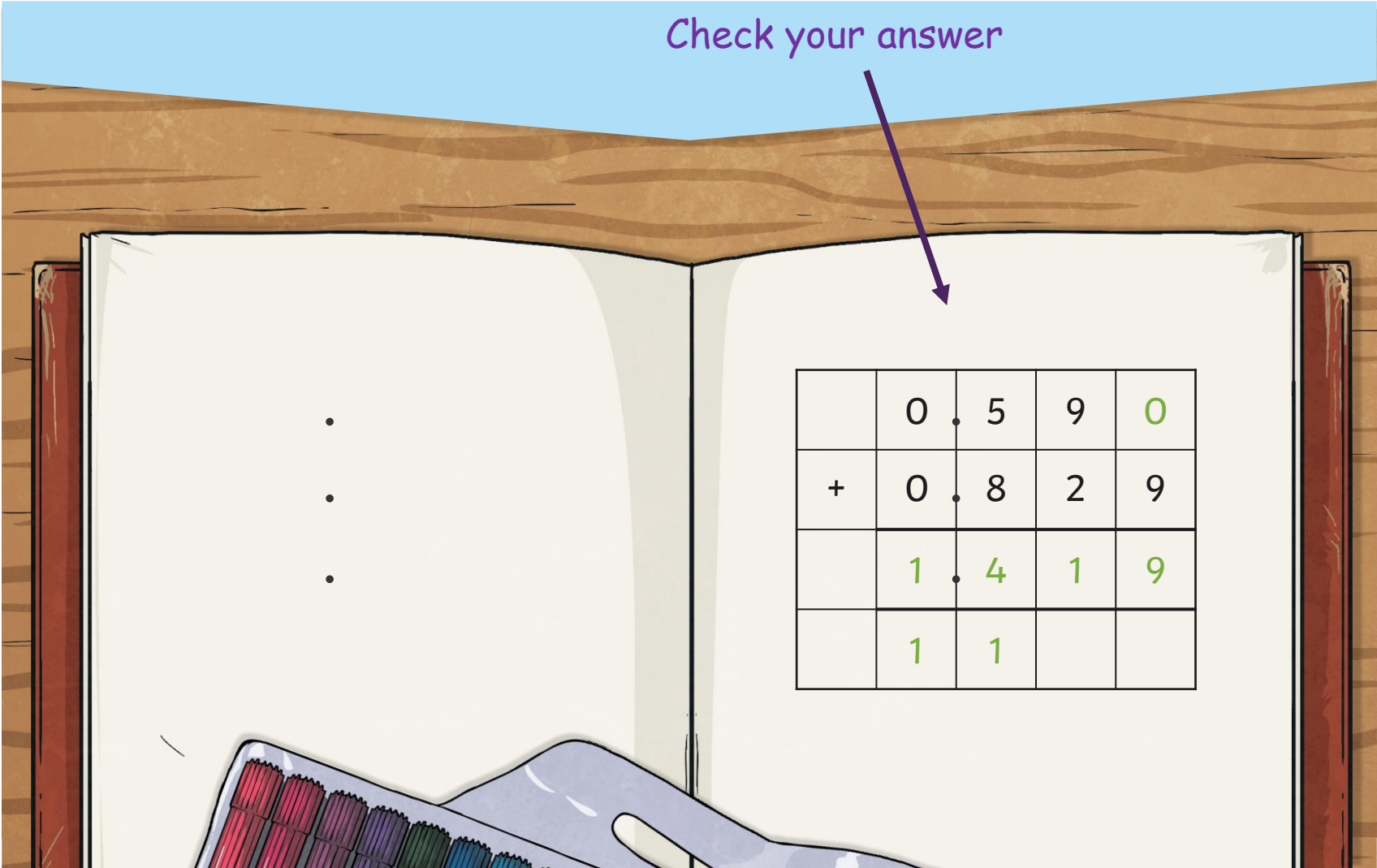
Try this one yourself! Don't forget to use 0 as a place holder.

	0	.	4	6	5
+	0	.	5	7	8
	1	.	0	4	3
	1		1	1	

	0	.	5	9	
+	0	.	8	2	9
		.			

We can also use the column method, as before when they were under 0.

Check your answer



	0	.	5	9	0
+	0	.	8	2	9
	1	.	4	1	9
	1		1		



## Adding Decimals – Crossing the Whole



Alma has a piece of ribbon which measures 1.47m long. She cuts it into 2 different length pieces.

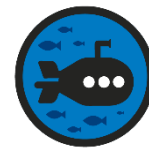
Is Alma correct?  
Explain your reasoning.

Tip: add her two decimals to check.



The two pieces of my ribbon measure 0.77 metres and 0.70 metres.

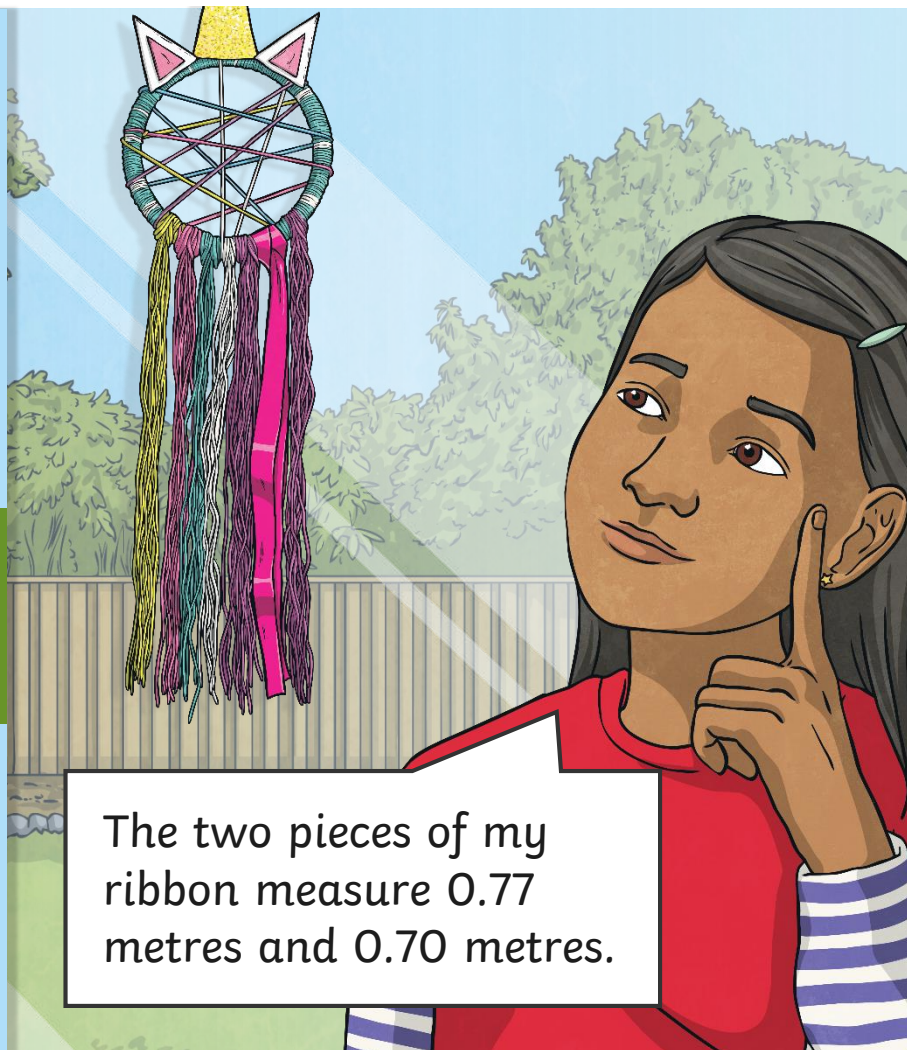
## Adding Decimals – Crossing the Whole



Alma has a piece of ribbon which measures 1.47m long. She cuts it into 2 different length pieces.

Is Alma correct?  
Explain your reasoning.

Yes. Alma is correct because the two different lengths of ribbon  $0.77 + 0.70 = 1.47$  metres in total.



The two pieces of my ribbon measure 0.77 metres and 0.70 metres.





Sammy can use the digits 1-9 only once to make a sum with a total greater than 1.

I can use the digit 4 to complete this calculation.

Sammy

9 1 3 4

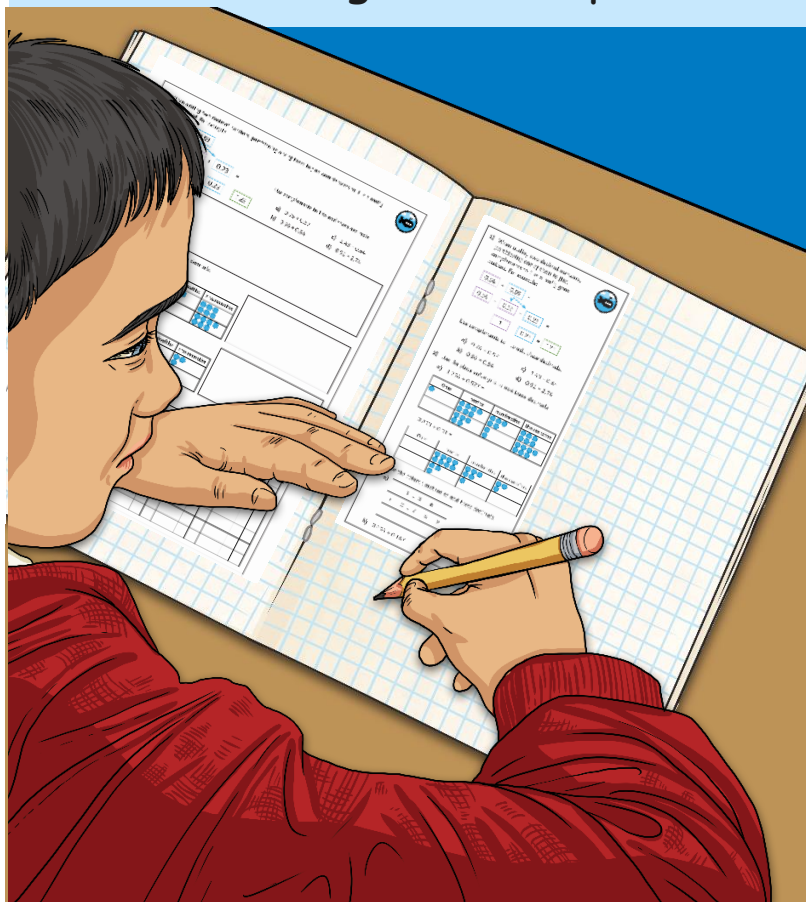
	0	2	6	5
+	0	7		8
	1	0	0	3
		1	1	

Do you agree with Sammy?  
Explain why.



## Adding Decimals – Crossing the Whole

Have a go at today's activities - Week 3 - Maths - Tuesday Activity.  
Don't forget to use place value columns if you get confused.



1) Complete

a)  $0.64 + 0.59 =$

b)  $0.64 + 0.36 + 0.23 =$

c)  $1 + 0.23 = 1.23$

2) When adding two decimal numbers, partitioning one of them to find complements to 1 is a really good method. For example:

Use complements to 1 to add these decimals.

a)  $0.76 + 0.57$       c)  $1.43 + 0.64$

b)  $0.56 + 0.84$       d)  $0.92 + 2.74$

3) Use the place value grid to add these decimals.

a)  $1.756 + 0.527 =$

Ones	tenths	hundredths	thousandths
1	7	5	6
	5	2	7

b)  $0.853 + 0.31 =$

Ones	tenths	hundredths	thousandths
	8	5	3
	3	1	

3) Use the column method to add these decimals.

a)

1	3	6	
+	0	7	5
			2

b)  $0.654 + 0.167$

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